of the

LABORATORY

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To: FBI, Memphis

Re: MURKIN

Date: April 29, 1968
FBI File No.
Lab. No.

Specimens received 4/5/68

For a complete listing of the evidence, refer to Laboratory report previously submitted to the Memphis Office.

Results of examination:

The lead cores of the bullets in the five cartridges, Q4 through Q8, were found to vary in composition even though they were all from the same manufacturer.

The core portion of the Q64 bullet fragment from the victim's body is similar in composition to the lead core of the bullet in the cartridge designated Q4 and could have come from a source such as represented by the lead core of the bullet in Q4.

The bullet jacket portion of specimen Q64 is similar in composition to the metal of the jackets of the bullets in the Q4 through Q8 cartridges and could have come from the source represented by these bullets.

KING CASE

Bullet Lands

C	77	
Fe	75	
Q64 = 1.56 mm	73	Si Sb Mg Pb Fe Bi Cu Ag Sn
Q4 = 1.50	71	Si Sb Mg Pb Fe Bi Cu Ag
Q5 = 1.47	69	Si Sb Mg Pb Fe Bi Cu Ag
Fe	67	
Q6 = 1.49	65	Si Sb Mg Pb Fe Bi Cu Ag
Q7 = 1.54	63	Si Sb Mg Pb Fe Bi Cu Ag
Q8 = 1.52	61	Si Sb Mg Pb Fe Bi Cu Ag Sn

April 19 1958

A

KING CHASE

COPPER JACKETS

C

Fe

Q64 (1.87 mg)

Q4 (1.80 mg)

Q5 (1.81 mg)

Fe

Q6 (1.79 mg)

Q7 (1.81 mg)

Q8 (1.80 mg)

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B

C 73

Fe 71

Q64 69 = 1.565 mg Sb⁻ As^tr Mg^tr Pb⁻ Si Fe↓ Bi Sn↓

Q4 67 = 1.545 mg Sb⁻ As^vst Mg^tr Pb Si Fe Bi –

Q64 65 = 1.670 mg Sb⁻ As^vst Mg^tr Pb⁻ Si Fe Bi –

April 22 - 1968

C

SAMPLE	wt.	µg Sb	% Sb	
Q64A	9.86 mg	132	1.34	1.37 %
Q64B	10.54	133	1.26	
Q64C	7.49	127	1.50	G = .12
				Rel S = 9%
Q4A	9.90	156	1.58	1.52 %
Q4B	9.06	131	1.45	
Q4C	8.14	124	1.52	G = .07
				Rel. G = 5%
Q5A	9.54	207	2.17	2.11 %
Q5B	9.46	199	2.10	
Q5C	8.50	175	2.06	G = .06
				Rel. G = 3%
Q6A	9.68	220	2.27	2.29 %
Q6B	9.63	228	2.37	
Q6C	9.60	214	2.23	G = .07
				Rel. G = 3%
Q7A	10.00	68	.68	.71 %
Q7B	8.42	62	.74	
Q7C	9.75	70	.72	G = .03
				Rel. G = 4%
Q8A	9.60	110	1.15	1.06 %
Q8B	9.30	95	1.02	
Q8C	9.18	92	1.00	G = .08
				Rel. G = 8%

According to Remington - Patterson there are no specs set for core lead.